

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A fatty acid composition derived from tall oil or vegetable sources, said fatty acid composition comprising consisting essentially of
less than 3 % saturated fatty acids,
more than 10 % C18;3 fatty acids,
more than 30 % C18;2 fatty acids,
and less than 35 % C18;1 fatty acids,
~~wherein said composition comprising low temperature stability and a cloud point lower than -4 °C,~~
wherein C18;3 is defined as C18 tri-unsaturated fatty acid, wherein C18;2 is defined as C18 di-unsaturated fatty acid, and wherein C18;1 is defined as C18 mono-unsaturated fatty acid,
resulting in a composition comprising low temperature stability and a cloud point lower than -4 °C.
2. (Canceled)
3. (Canceled)
4. (Currently Amended) A fatty acid composition according to claim 1, ~~2 or 3~~ characterized in that the composition contains less than 2.2% saturated fatty acids and more than 90 % unsaturated fatty acids.
5. (Previously Amended) A fatty acid composition according to claim 4 characterized in that the content of the C18;3 fatty acids is more than 15 %.

6. (Original) A fatty acid composition according to claim 5 characterized in that said C18;3 fatty acid is pinolenic acid.

7. (Currently Amended) A fatty acid composition according to claim 4 ~~or~~ 5 characterized in that the total content of fatty acids includes C16;0, C17;0 and C18;0 fatty acids and is less than 1.5% of the fatty acid composition,

wherein C16;0 is defined as C16 saturated fatty acids, wherein C17;0 is defined as C17 saturated fatty acids, and wherein C18;0 is defined as C18 saturated fatty acids.

8. (Currently Amended) A fatty acid composition according to claim 4 ~~characterized in that the content of~~ wherein saturated fatty acids include less than 1 % C20;0 fatty acids is less than 1 %, wherein C20;0 is defined as C20 saturated fatty acids.

9. (Previously Amended) A fatty acid composition according to claim 4 characterized in that the content of the resin acids is less than 5 %.

10. (Currently Amended) A fatty acid composition according to claim 4 characterized in that the content of the C18;2 fatty acids is more than 40 % of the fatty acid composition.

11. (Previously Amended) A fatty acid composition according to claim 4 characterized in that the content of the C18;1 fatty acids is less than 25 %.

12. (Currently Amended) A fatty acid composition according to ~~any one of~~ claims 1 ~~2, 5, 6, 8, 9, 10 or 11~~ wherein said composition comprises less than 1 % C18;0 fatty acids and less than 2 % resin acids and the total of saturated fatty acids is less than 1.5 %.

13. (Currently Amended) A fatty acid composition according to ~~any one of claims 1, 2, 5, 6, 8, 9, 10 or 11~~ having a cloud point factor below 0.28 calculated according to the equation 1

$$C_{\text{pfac}} = A [C16;0] + B [C17;0] + C [C18;0] + D [C20;0] + E [C18;1] + F [C18;2] + G [C18;3] + H [\text{Resin}]$$
, wherein

[C16;0] means concentration of C16 saturated fatty acids,

[C17;0] means concentration of C17 saturated fatty acids,

[C18;0] means concentration of C18 saturated fatty acids,

[C20;0] means concentration of C20 saturated fatty acids,

[C18;1] means concentration of C18 mono- unsaturated fatty acids,

[C18;2] means concentration of C18 di-unsaturated fatty acids,

[C18;3] means concentration of C18 tri-unsaturated fatty acids,

[Resin] means concentration of C16 resin fatty acids,

wherein all above concentrations are based on the total amount of resin and fatty acids in the composition and multiplied by concentration factors, and wherein

and each concentration factor has an approximate value as follows:

~~are~~ A = 6.2, B = 1.32, C = 34.5, D = 0.075, E = 1.3, F = -0.27, G = -5.1 and H = 17.

14. (Currently Amended) A fatty acid composition according to ~~any one of claims 1, 2, 5, 6, 8, 9, 10 or 11~~ claims 1 to 13 characterized in that the cloud point of said fatty acid composition is lower than -6 °C.

15. (Currently amended) An ester ~~characterized in that said ester is produced from the reaction of a fatty acid composition according to claims 1 to 13 and an alcohol.~~

16. (Currently amended) A glycerol ester ~~characterized in that said glycerol ester is produced from the reaction of a fatty acid composition according to claim 1 to 13 and an~~

alcohol.

17. (Currently Amended) A process for producing a fatty acid composition comprising the steps of selecting a crude tall oil distilling said crude tall oil ~~to provide a fatty acid composition~~ comprising less than 3 % saturated fatty acids, more than 10 % C18;3 fatty acids, more than 30 % C18;2 fatty acids and less than 35 % C18;1 fatty acids, said composition comprising a cloud point lower than -4 °C, wherein C18;3 is defined as C18 tri-unsaturated fatty acid, wherein C18;2 is defined as C18 di-unsaturated fatty acid, and wherein C18;1 is defined as C18 mono-unsaturated fatty acid.

18. (Previously Amended) A process according to claim 17 wherein said crude tall oil comprises a blend of different crude tall oils.

19. (Original) A process according to claim 17 characterized in that said crude tall oil is derived from trees grown in a cold climate.

20. (Original) A process according to claim 17 characterized in that more than 4 % of the fatty acids of the crude tall oil are triple unsaturated fatty acids.

21. (Original) A process according to claim 17 characterized in that less than 1 % of the fatty acids of the crude tall oil are saturated fatty acids of C18 or greater.

22. (Previously Amended) A process according to claim 17 wherein less than 0.3 %, of the fatty acids of the crude tall oil are C18;0 fatty acids.

23. (Currently Amended) A fuel additive comprising the fatty acid composition according to claim 1-13, ~~wherein said composition is as a fuel additive.~~

24. (Currently Amended) The fuel additive ~~fatty acid composition according to~~ claim 23, wherein said fuel additive improves lubricity ~~performance of~~ fuel.

25. (Currently Amended) The ~~composition~~ fuel additive of claim 24 further comprising at least one non-fatty acid fuel additive component.

26. (Currently Amended) The composition of claim 25 wherein said at least one non-fatty acid fuel additive component is selected from the group consisting of detergent, cold flow additive, antifoam, static dissipate and antioxidant.

27. (Currently Amended) A fuel additive comprising an ester according to claim 15 or 16.

28. (Canceled)

29. (Previously Amended) A fuel comprising an effective amount of the fatty acid composition according to claim 1 wherein said fuel is stable at temperatures below -4 °C.

30. (Previously Amended) A fuel according to claim 29 characterized in that said fuel is selected from the group consisting of diesel, gas oil, gasoline, aviation fuel, kerosene, and mixtures thereof.

31. (Previously Amended) A fuel according to claim 29 characterized in that sulfur content of said fuel is less than 500 ppm.

32. (Previously Amended) A fuel according to claim 29 characterized in that said fuel

contains 10 to 1000 ppm of said fatty acid composition.

33. (Previously Presented) A fatty acid composition comprising less than 1.5 % saturated fatty acids, more than 10 % C18;3 fatty acids, more than 40 % C18;2 fatty acids, less than 30 % C18;1 fatty acids, less than 2.0% resins, a cloud point lower than -10 °C, wherein C18;3 is defined as C18 tri-unsaturated fatty acid, wherein C18;2 is defined as C18 di-unsaturated fatty acid, and wherein C18;1 is defined as C18 mono-unsaturated fatty acid.